

# Web Languages and Technologies

Faculdade de Engenharia da Universidade do Porto  
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Duration: 2h / No Consultation

Name: \_\_\_\_\_

Number: \_\_\_\_\_

**Note:** In multiple choice questions, you lose  $\frac{1}{3}$  of the grade for each wrong answer but you can select more than one option.

1 val. 1. Which one of these elements is **not** mandatory in a valid HTML document?

- The *head* element.
- The *section* element.
- The *body* element.
- The *title* element.

1 val. 2. What elements are selected by the following CSS selector?

```
header h1, h2 { ... }
```

- h1* and *h2* elements inside a *header*.
- All *h1*, *h2* and *header* elements.
- h1* elements inside a *header* and any *h2* elements.
- Does not select any element.

1 val. 3. A *Session Fixation* attack is done by...

- Memorizing and copying the users session cookie.
- Steal a session cookie that was sent insecurely.
- Taking advantage of clear text cookies.
- Forcing a user to use a certain session cookie.

1 val. 4. Is it a good idea to hash passwords in the browser, using Javascript, instead of doing it in the server?

- No, because it is slower.
- Yes, because it prevents the password from being intercepted.
- No, because some of the advantages of hashing passwords are lost.
- Yes, because it normalizes the length of the passwords.

1 val. 5. In the HTTP protocol, are safe methods also idempotent?

- Never.
- Always.
- Only on secure connections.
- Only if parameters are not sent using the GET method.

(continues on the other side...)

1 val. 6. In PHP, when a variable is declared as *global* inside a function, that variable:

- Becomes available to all scripts in the same folder.
- Cannot be used in another function.
- Becomes available in all the other functions.
- Refers to a global script variable.

1 val. 7. In Javascript, the keyword *this* always refers to...

- The current object.
- An object representing the document.
- The current execution context.
- An object representing the browser.

1 val. 8. In XPath, the principal node type...

- Depends on the used axis.
- Is always *element*.
- Depends on the context node.
- Always has to be specified.